SIDDHARTH DAS

C-337 ⋄ BRH Hall of Residence, Indian Institute of Technology Kharagpur, West Bengal- 721302

(+91)7477752777 ⋄ das.siddharth07@gmail.com ⋄ dassiddharth07.github.io

EDUCATION

Indian Institute of Technology Kharagpur　　　　　　　　　*July 2016 - Present*
B.Tech　　　　　　　　　　　　　　　　　　　　　　　　　Overall GPA: 9.84/10
Department of Electronics and Electrical Communication Engineering

ODM Public School　　　　　　　　　　　　　　　　　　*July 2014 - May 2016*
All India Senior School Certificate Examination　　　　　　　　Percentage: 95.6%

Chinmaya Vidyalaya(E.M.)　　　　　　　　　　　　　　　　　*till May 2014*
Indian Certificate of Secondary Education　　　　　　　　　　　Percentage: 98%

TECHNICAL STRENGTHS

Programming Languages	C, MATLAB/Octave
Software & Tools	Arduino IDE, LTSpice, LaTeX, Solidworks
Web Development	HTML, CSS, Bootstrap

RESEARCH EXPERIENCE

Autonomous Underwater Vehicle　　　　　　　　　　　　March 2017- Present
Guided by Prof. C.S. Kumar

· As Mechanical Team Member, helped in the design and assembly of the future project Kraken 4.0
· As Electronics Team Member, studied the working of thyristors as switches and their implementation
· Studied the implementation of Battery Management System for Kraken 4.0 to prevent overcharging and damage to the battery pack
· Helped in design of the Kill Switch and Pull Up circuit for I2C communication

Spin-based applications　　　　　　　　　　　　　　　　October 2017-Present

· Studied numerous papers on spin-torque based Oscillators and Sensors for faster and efficient communication

Simulation of Semiconductor Devices　　　　　　　　　　　September 2017
Course Project by Prof. Mrigank Sharad

· Obtained and analysed results of various effects on p- and n- type semiconductors using the online tool ABACUS on the Nano-hub platform

ACADEMIC ACHIEVEMENTS

Currently **Ranked 1** in the department among all second year B.tech and Dual Degree students

Secured Department Change from Mechanical Engineering Department to Electronics and Electrical Communication Engineering Department at the end of first year with a CGPA of 9.84/10.0

Ranked in National Top 0.029% (amongst 1,300,000 candidates) in JEE Mains 2016 with an All India Rank of 380 and Top 0.62% (amongst 200,000 candidates) in IIT-JEE Advanced 2016 with an All India Rank of 1234

Qualified written round as well as interview in SX stream of Kishore Vaigyanik Protsahan Yojana, conducted by Indian Institute of Science with an All India Rank of 431

Qualified both rounds of National Talent Search Examination conducted by NCERT in Std 8

Qualified Regional Mathematics Olympiad in 2014 conducted by Odisha Mathematical Society and shortlisted among top 30 students in state to appear for the Indian National Mathematics Olympiad

Qualified Uranium Talent Search Examination conducted by The Uranium and secured a state rank of 10

RELEVANT COURSES

Core Courses	**Other Courses**
Semiconductor Devices (ongoing)	Fundamentals of Nanoelectronics on Nanohub
Network Theory (ongoing)	Spintronics on NPTEL (ongoing)
Introduction to Electronics (ongoing)	Battery Management and Control by UCCS
Matrix Algebra (ongoing)	Machine Learning by Andrew Ng (ongoing)
Mathematics-I	
Mathematics-II	

POSITION OF RESPONSIBILITY

Autonomous Underwater Vehicle   March 2017 - July 2017
Mechanical Team Member

· Helped in the design and assembly of Kraken 4.0 on Solidworks platform

Autonomous Underwater Vehicle   July 2017 - Present
Electronics Team Member

· Responsible for the implementation of Battery Management System for the upcoming project Kraken 4.0

EXTRA-CURRICULAR

Secured 1st position in State Level Mother Teresa Quiz 2011 organized by All Odisha Association of ICSE Schools

Qualified for the finals and finished as third runners' up in 2012 and 2013 in the Britannica Mother Teresa Quiz.

Secured 3rd position in State level quiz "Quizana" 2012 organized by All Odisha Association of ICSE Schools

Secured 1st position in Inter-school Quiz Competition organized by Indian Oil Corporation Limited, Government of India